

CLAIMS:

1. A terminal of a packet-switching communications network, comprising a data processing system which includes a first program module for processing first signaling information of the packet-switching communications network, the first signaling information being defined in a first packet-switching standard protocol and being transmitted using signaling packets of the packet-switching communications network, and the first program module being designed to process second signaling information which is transmitted using data packets for the packet-switching communications network and which is defined according to a second standard protocol different from the first standard protocol.

2. A terminal of a packet-switching communications network as claimed in claim 1, wherein the second signaling information is signaling information of a line-switching communications network.

15 3. A terminal of a packet-switching network as claimed in claim 2, wherein the second signaling information is signaling information in accordance with a DSS 1 signaling protocol.

20 4. A terminal of a packet-switching communications network as claimed in claim 1, wherein the first signaling information is signaling information with an H.323/H.450 signaling protocol.

25 5. A terminal of a packet-switching communications network as claimed in claim 1, wherein the data packets used to transmit the second signaling information are transmitted in a part of the signaling packets which does not contain any first signaling information.

30 6. A terminal of a packet-switching communications network as claimed in claim 1, wherein signaling information for at least one service or feature

which cannot be used by the first signaling information is transmitted as second signaling information.

7. A terminal of a packet-switching communications network as
5 claimed in claim 6, wherein the at least one service or feature includes at least one
of a call pick up, three way conferencing, large scale conferencing, holding,
displaying of toll information, a closed user group, call number identification,
automatic call back when busy, automatic call back when no response, call barring,
call waiting indication and call transfer.

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8. A terminal of a packet-switching communications network as claimed in claim 1, wherein the second signaling information is transmitted from the terminal to a further terminal and is further transmitted from the further terminal to the terminal, using the packet-switching communications network in accordance with a tunnel principal.

9. A terminal of a packet-switching communications network as claimed in claim 8, wherein the second signaling information is transmitted from the terminal to an interface unit between the packet-switching communications network and a lines switching communications network, transmitted from the interface unit to the terminal, using the packet-switching communications network.

10. A terminal of a packet-switching communications network as
claimed in claim 9, wherein the interface unit converts the signaling information of
the line switching communications network into the first signaling information, the
second signaling information including the signaling information of the line
switching communications network which cannot be converted in first signaling
network information.

30 11. A terminal of a packet-switching communications network as
claimed in claim 1, wherein the data processing system contains a second program

module which converts the transmitted signaling information into image information to be displayed on a display unit and processes information which is input using an input unit, data being exchanged between the first program module and the second program module.

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12. A terminal of a packet-switching communications network as claimed in claim 11, wherein the first program module conditions the information acquired using the second program module in order to transmit the information to the packet-switching communications network.

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13. A terminal of a packet-switching communications network as claimed in claim 12, wherein the data is exchanged between the first program module and the second program module using a program interface.

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14. A terminal of a packet-switching communications network as claimed in claim 13, wherein at least one of the first signaling information and the second signaling information is stored in a data base of the data processing system.

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15. A terminal of a packet-switching communications network as claimed in claim 1, wherein the second program module makes available a graphic user interface.

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16. A terminal of a packet-switching communications network as claimed in claim 1, wherein the second signaling information is processed and generated by a third program module.

17. A terminal of a packet-switching communications network as claimed in claim 1, wherein the packet-switching communications network is a data network based on an internet protocol, and the terminal is an IP terminal.

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18. A terminal of a packet-switching communications network as claimed in claim 1, wherein a voice connection to a further subscriber can be set up using the terminal.

5 19. A terminal of a packet-switching communications network as claimed in claim 1, wherein a second program module makes available a graphic user interface for inputting and outputting data.

10 20. A terminal of a packet-switching communications network as claimed in claim 19, wherein the data processing system includes a forth program module which can be used to process the graphic user data.

15 21. A terminal of a packet-switching communications network as claimed in claim 19, wherein a plurality of possible graphic user interfaces are stored in the data processing system, and the user interfaces can be switched over using the second program module.

20 22. A terminal of a packet-switching communications network as claimed in claim 19, wherein the information is input using buttons on the graphic user interface.

25 23. A terminal of a packet-switching communications network as claimed in claim 1, wherein the terminal is a computer system with hardware and software.

24. A method for operating telecommunications systems having a packet-switching communications network, the method comprising the steps of: providing a terminal which is connected to the packet-switching communications network, the terminal containing a data processing system which includes a first program module;

- processing, via the first program module, first signaling information of the packet-switching communications network;
- defining the first signaling information in a first packet-switching standard protocol;
- 5 transmitting the first signaling information using signaling packets of the packet-switching communications network;
- defining second signaling information according to a second standard protocol different from the first standard protocol;
- transmitting the second signaling information using data packets of the
- 10 packet-switching communications network; and
- processing the second signaling information via the first program module.
25. A method for operating telecommunications systems having a packet-switching communications network as claimed in claim 24, wherein first signaling information is signaling information in accordance with an H.323/H.450 signaling protocol.
26. A method for operating telecommunications systems having a packet-switching communications network as claimed in claim 24, wherein the second signaling information is signaling information in accordance with a DSS 1 signaling protocol.
27. A method for operating telecommunications systems having a packet-switching communications network as claimed in claim 24, wherein the packet-switching communications network is a data network based on an internet protocol

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